

Recombinant mouse S100A3 protein

Catalog Number: ATGP1652

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-101aa

UniProt No.

P62818

NCBI Accession No.

NP_035440

Alternative Names

S100 calcium binding protein A3, S100E

PRODUCT SPECIFICATION

Molecular Weight

14.3 kDa (125aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 150mM NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

S100A3, also known as Protein S-100E and S100 calcium-binding protein A3, belongs to the S-100 family of proteins containing 2 EF-hand calcium-binding motifs. The S100 proteins act as multifunctional signaling factors that are involved in the regulation of diverse cellular processes such as cell cycle progression and differentiation. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells. This protein has the highest content of cysteines of all S100 proteins, has a high affinity for Zinc, and is highly expressed in human hair cuticle. Recombinant mouse S100A3 protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMTTRPLE QAVAAIVCTF QEYAGRCGDK YKICQSELKE LLQKELPTWT PSEFRECDYN
KFMSVLDTNK DCEVDFGEYV RSLASLCLYC HEYFKECPPE PPCPQ

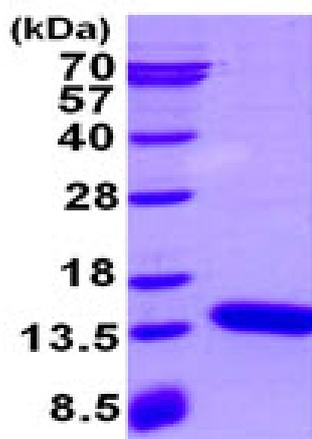
General References

Streicher WW, et al. (2010) Biophys Chem. 151(3):181-6.

Yao R, et al. (2007) Anticancer Res. 27(5A):3051-8.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)